

Fig. 1A

SUS1	SEQ ID NO: 2	ENGILRKWISRFDVW	native
SUS2	SEQ ID NO: 3	ENGIVRKWISRFEVW	native
SS2	SEQ ID NO: 10	GIVRKWISRFEVWPYLLKK	active
SS11	SEQ ID NO: 11	ILRVPFRTENGIVRK(NH2)	inactive
SS12	SEQ ID NO: 12	GIVRKWISRFEVWPYL(NH2)	active
SS15	SEQ ID NO: 13	GIVRK A ISRFEV A PYL(NH2)	less active
SS16	SEQ ID NO: 14	SRFEVWPYL(NH2)	less active
SP3	SEQ ID NO: 18	RRISSVE DKK(NH2)	inactive
NR11	SEQ ID NO: 15	GPTLKR T ASTAFMNTTSKK	inactive
SP26	SEQ ID NO: 16	GRMR R IATVEMMKK	inactive
SS1	SEQ ID NO: 9	GDRVLSRLHSVRERIGK	inactive
ACTIN	SEQ ID NO: 19	EHGIVTNWDDMEKIWHHTFY	consensus


Double basic cluster: black box; e.g. 
Possible region of specificity: underlined or boxed
Substitutions: bold

Fig. 1B



X₄

X₃

X₂

X₁

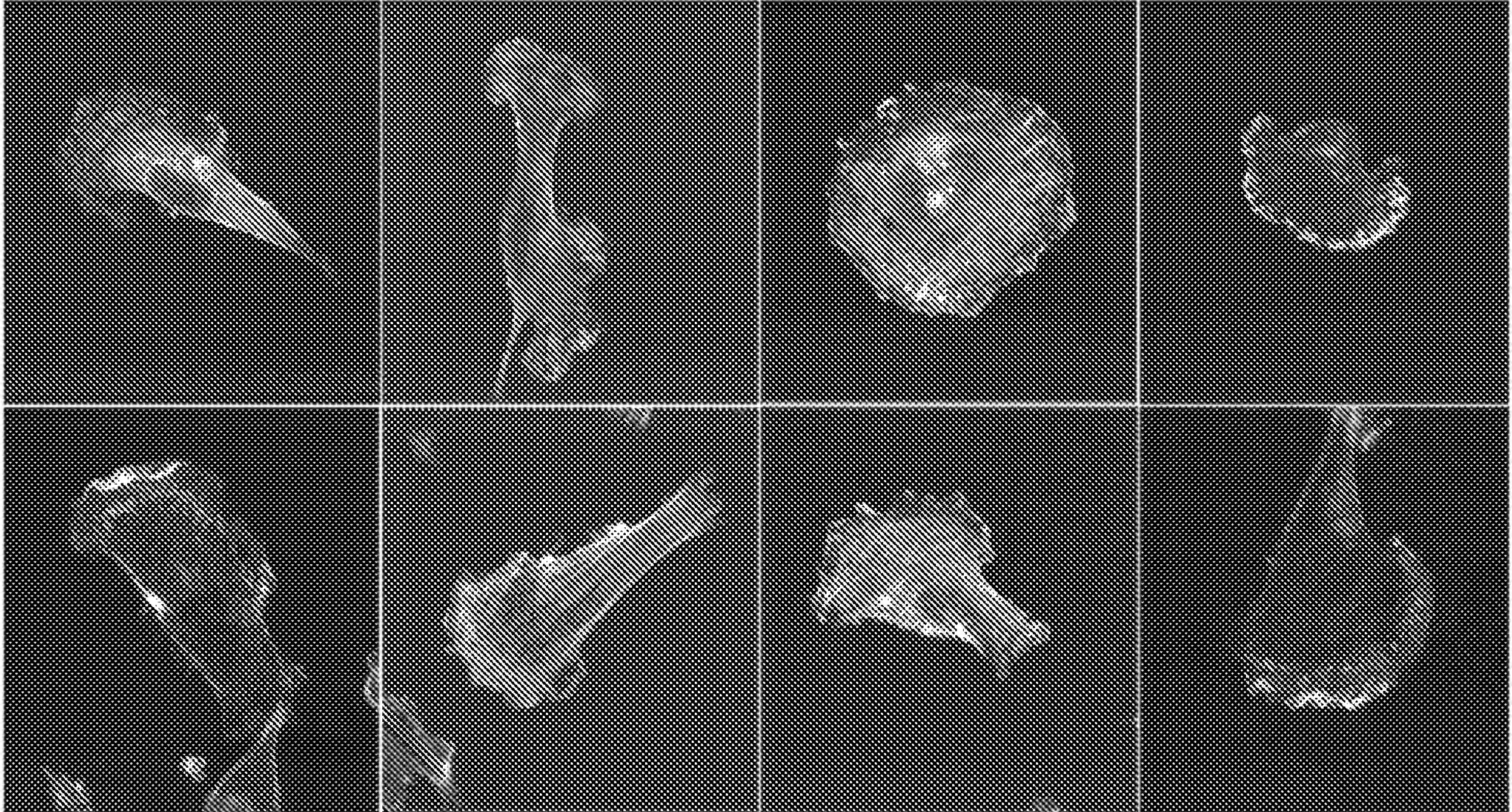
X₅

X₆

SEQ ID NO.		SEQUENCE
SEQ ID NO:22	X ₁	SRFEVW
SEQ ID NO:17	X ₂ -X ₁	WISRFEVW
SEQ ID NO:14	X ₁ -X ₅	SRFEVWPYL
SEQ ID NO:23	X ₂ -X ₁ -X ₅ -X ₆	WISRFEVWPYLLKK
SEQ ID NO:12	X ₃ -X ₂ -X ₁ -X ₅	GIVRKWISRFEVWPYL
SEQ ID NO:10	X ₃ -X ₂ -X ₁ -X ₅ -X ₆	GIVRKWISRFEVWPYLLKK
SEQ ID NO:24	X ₄ -X ₃ -X ₂ -X ₁ -X ₅ -X ₆	ENGIVRKWISRFEVWPYLLKK

Fig. 2

A



B

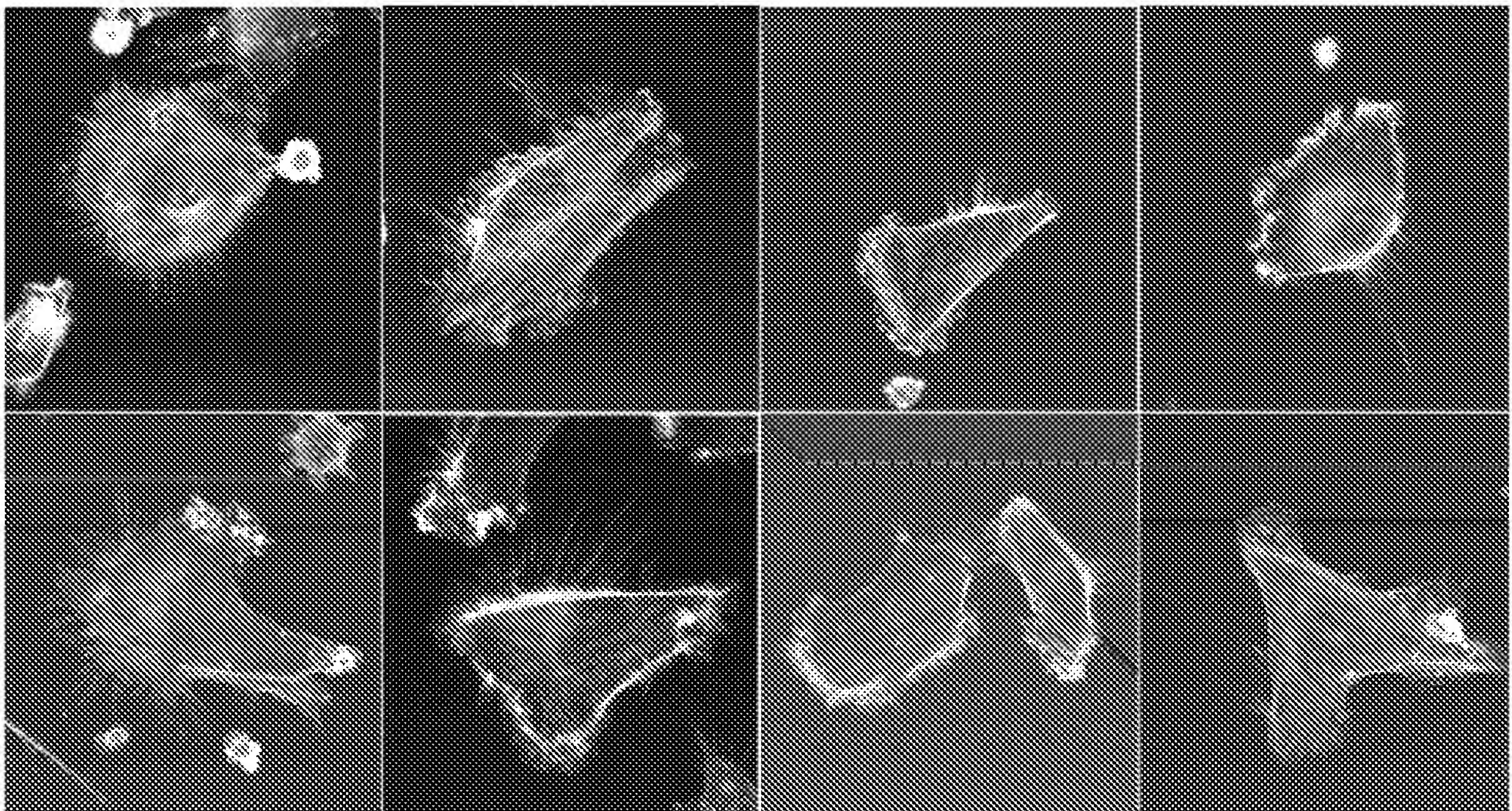


Fig. 3

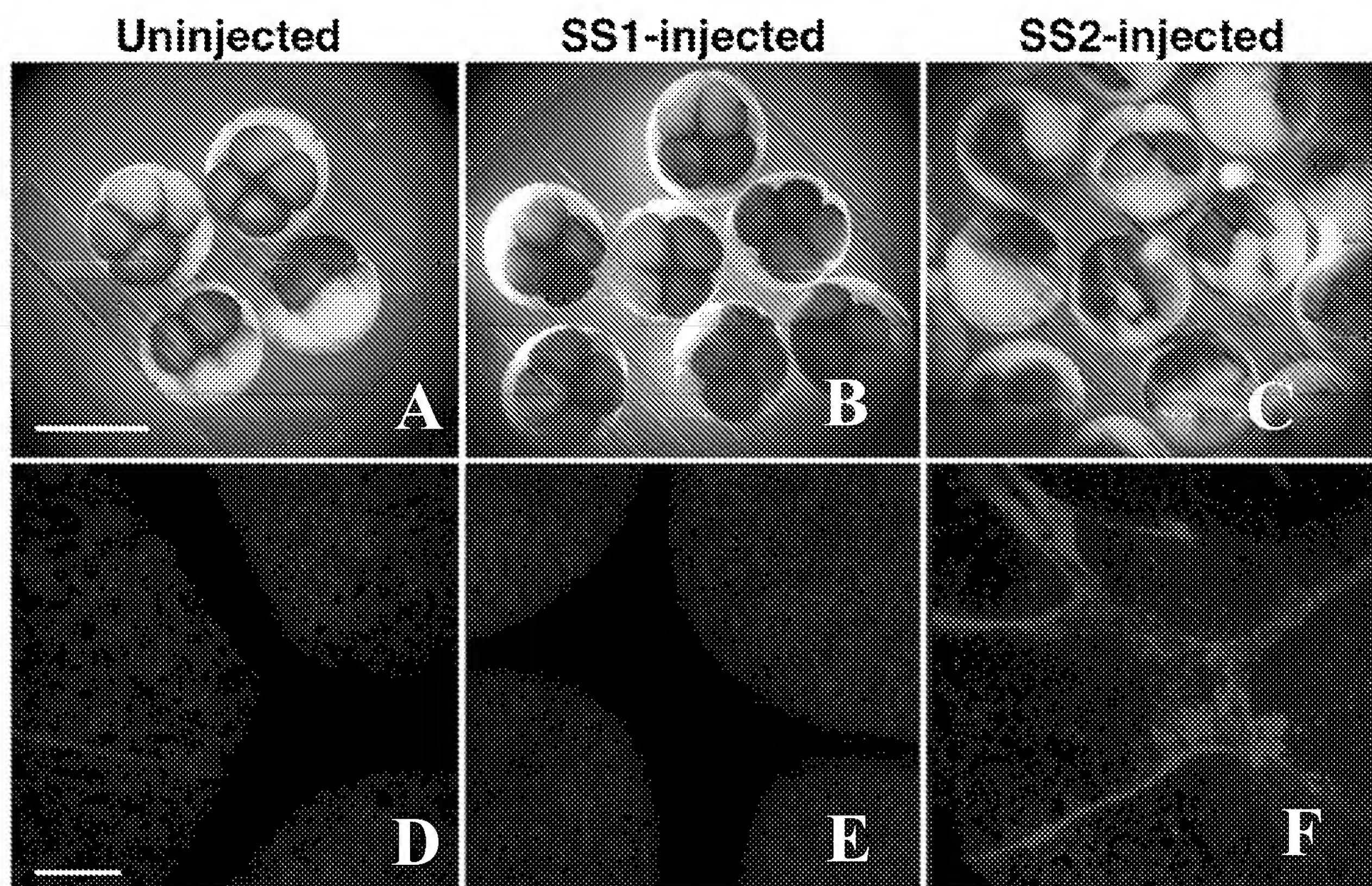


Fig. 4

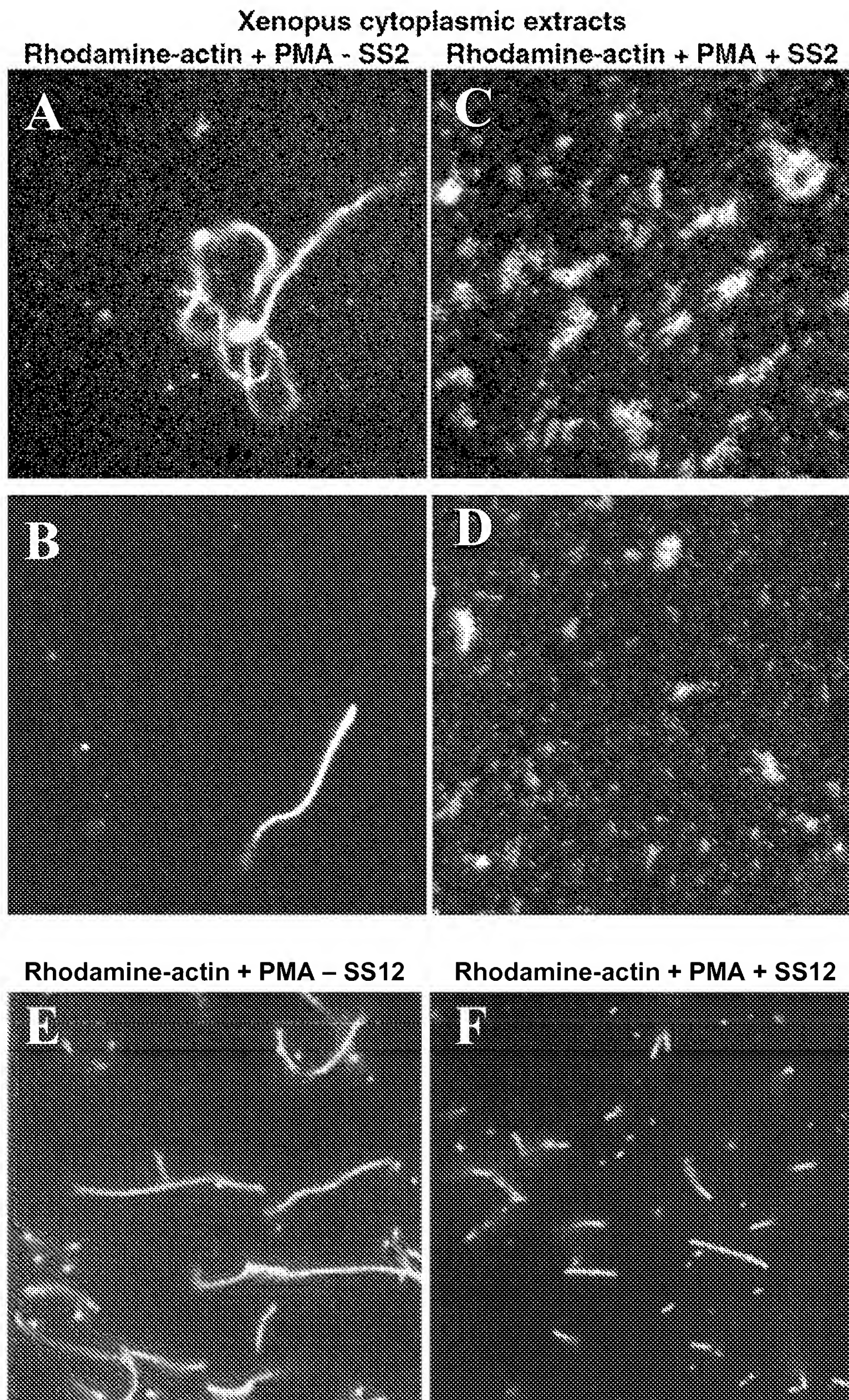


Fig. 5

control

SS12

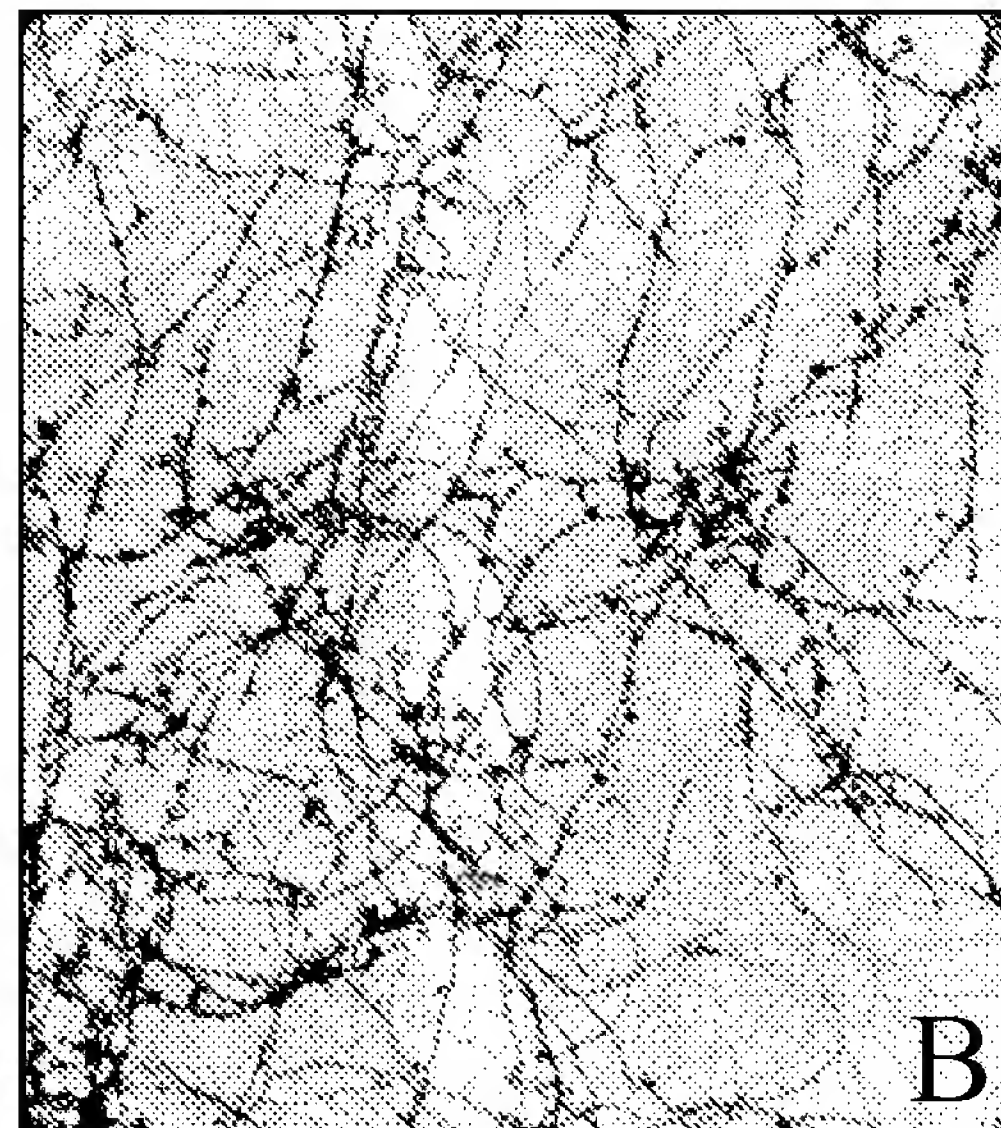
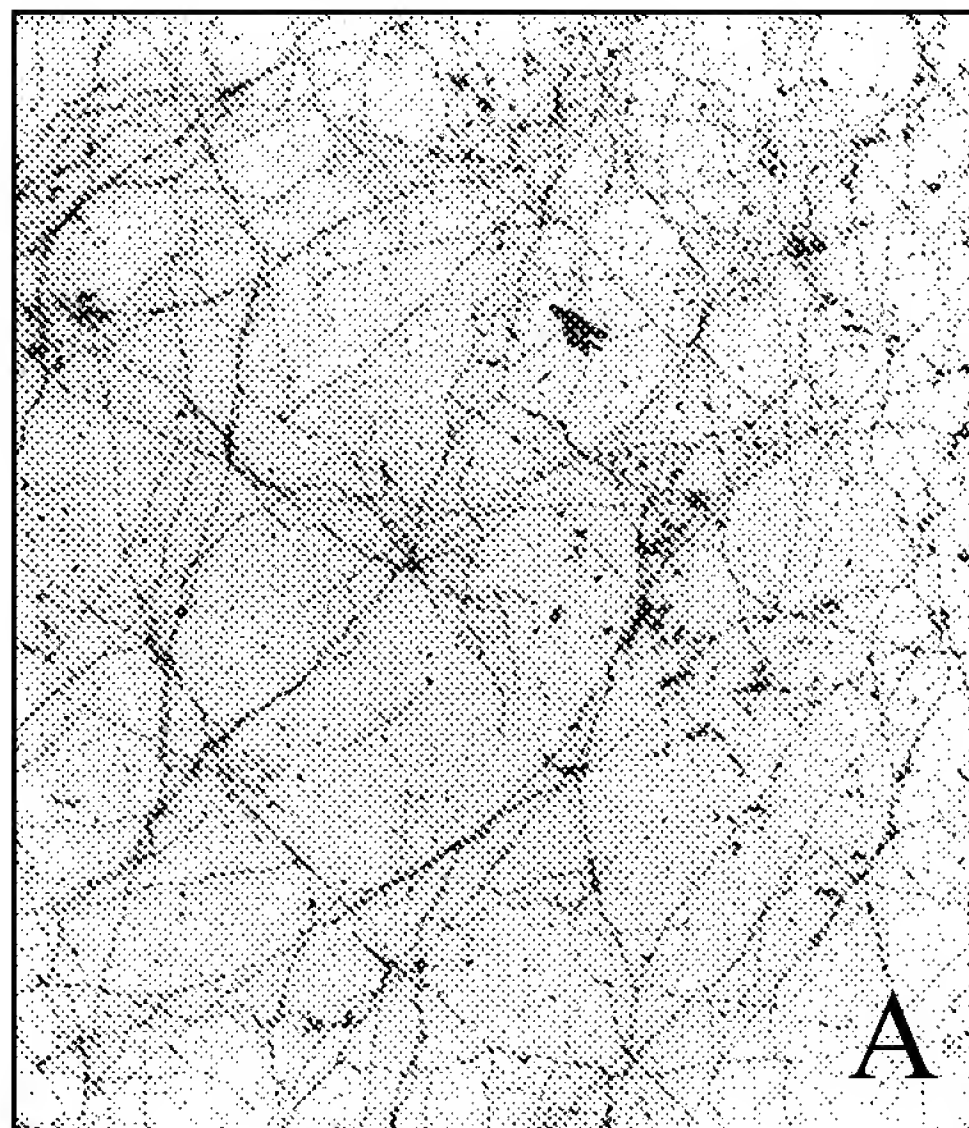


Fig. 6A

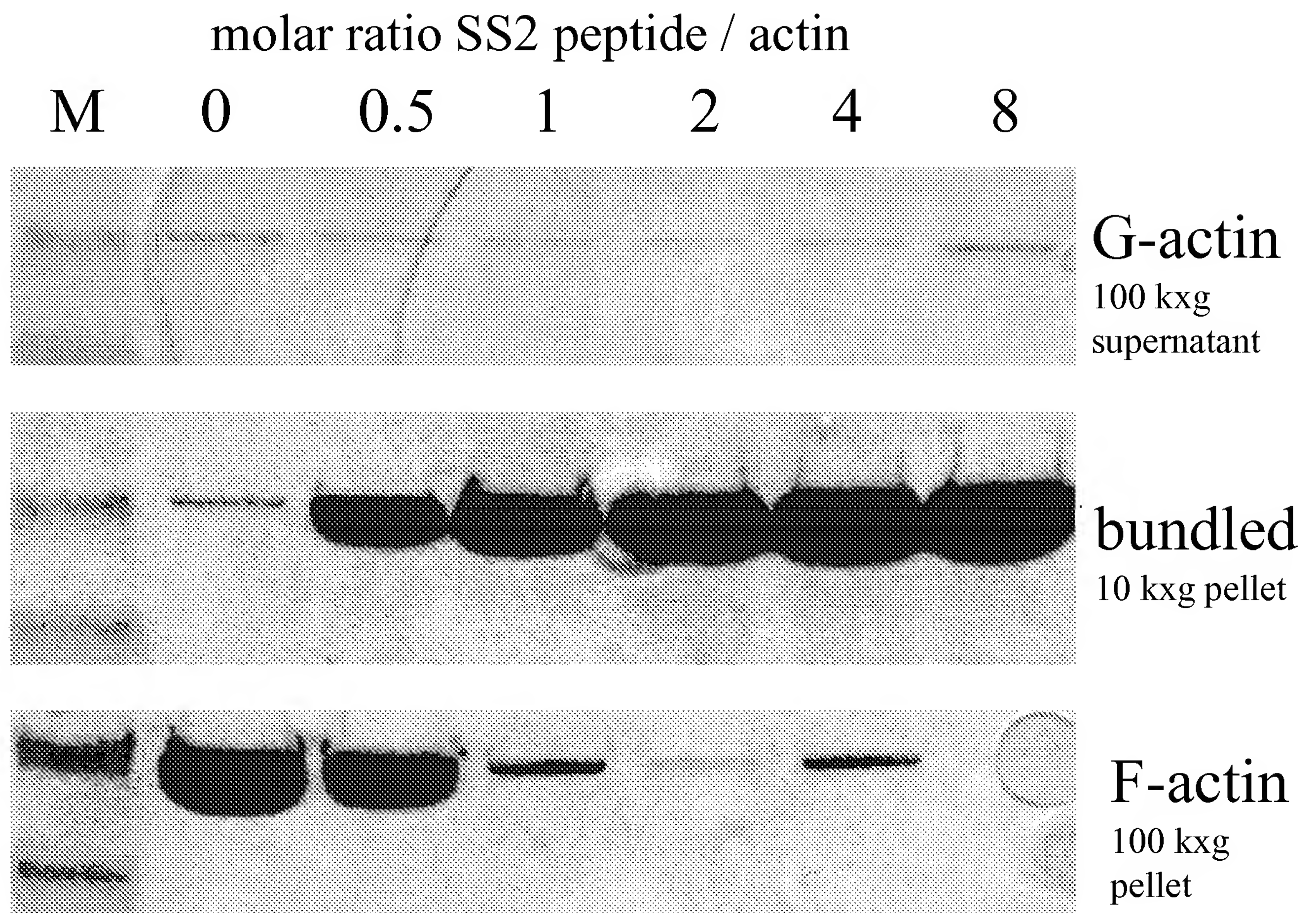


Fig. 6B

Effect of SS2 on polymerized
F-actin in vitro

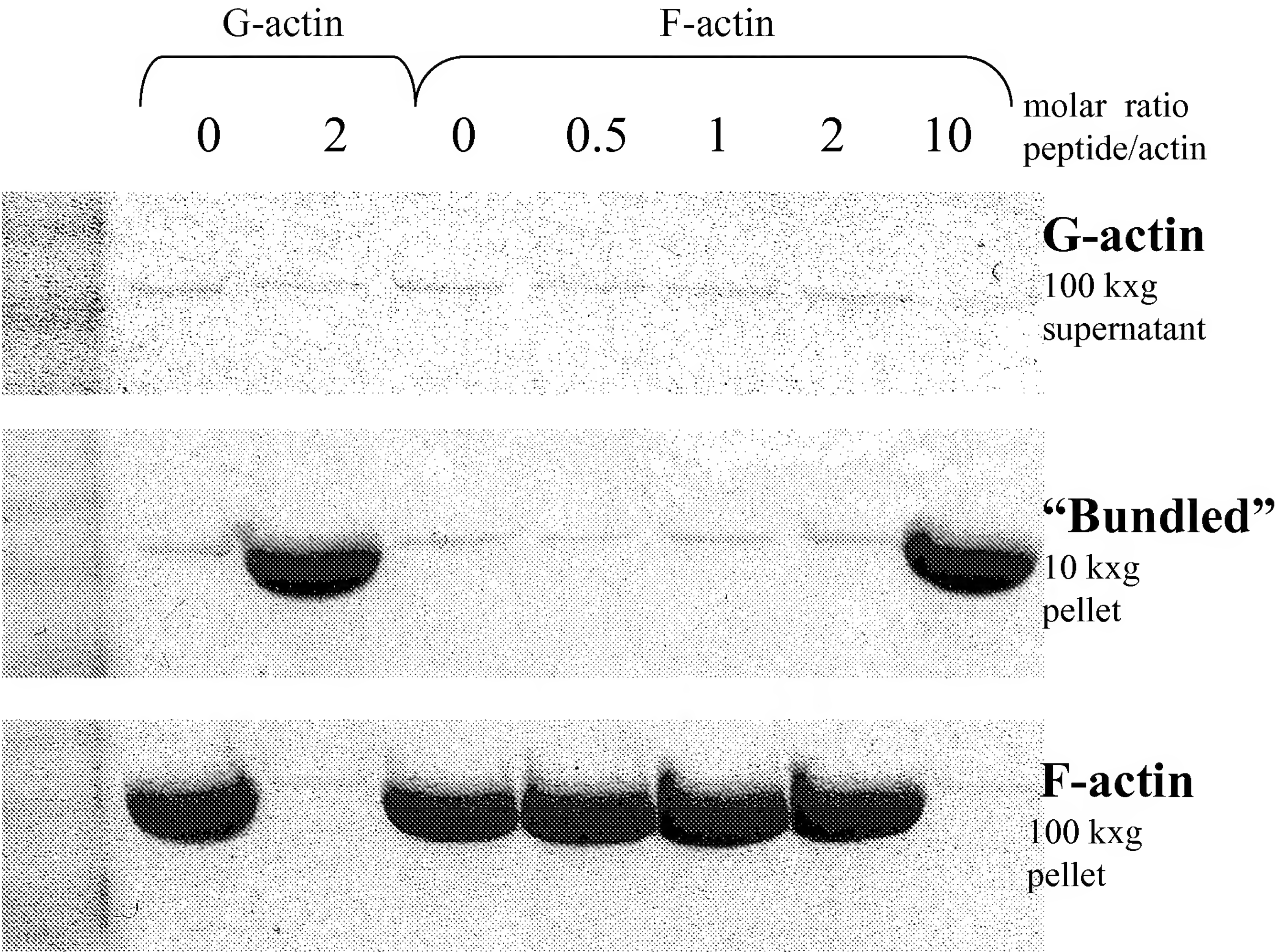


Fig. 6C

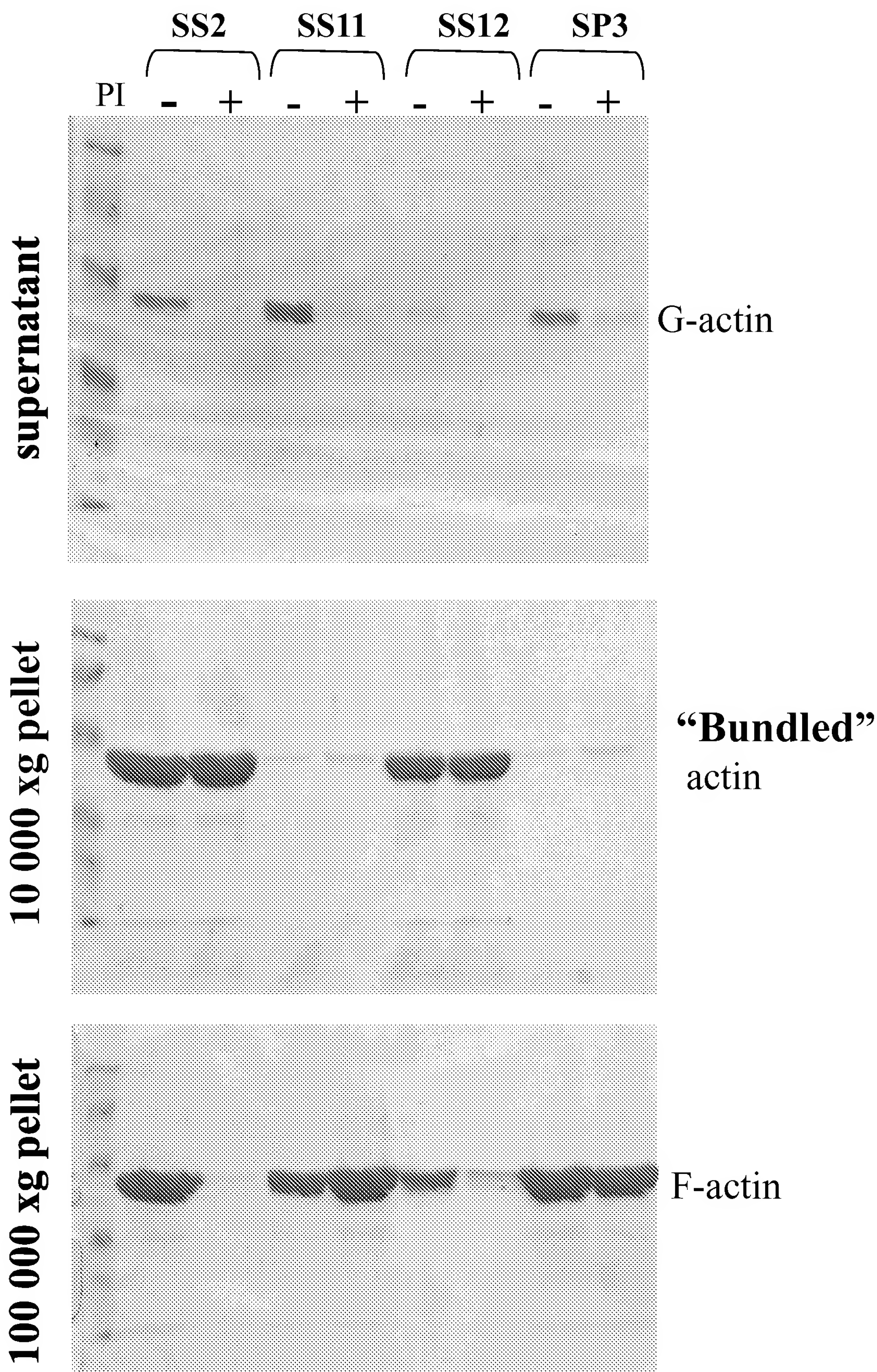


Fig. 6D

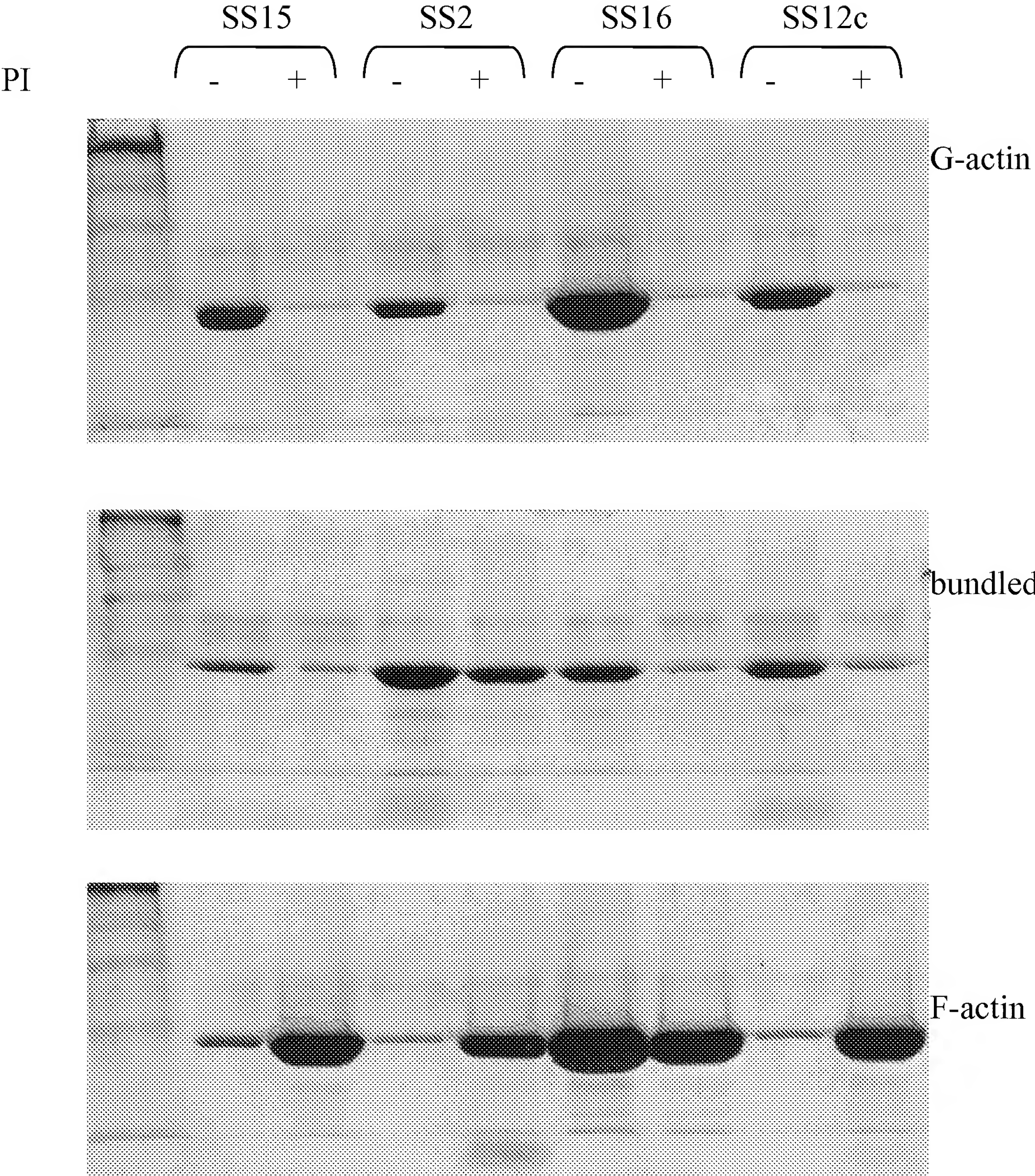


Fig. 6E

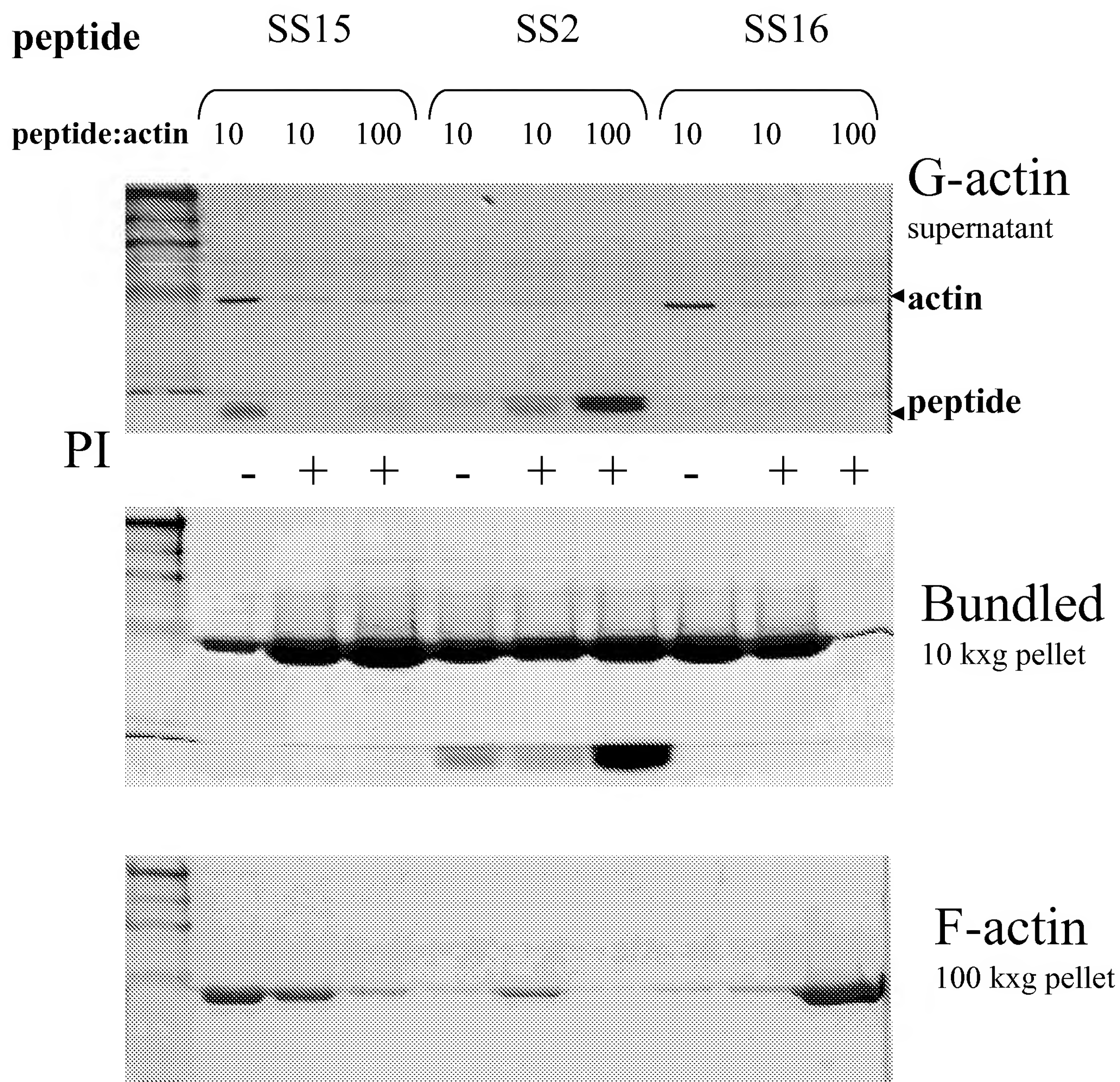


Fig. 6F

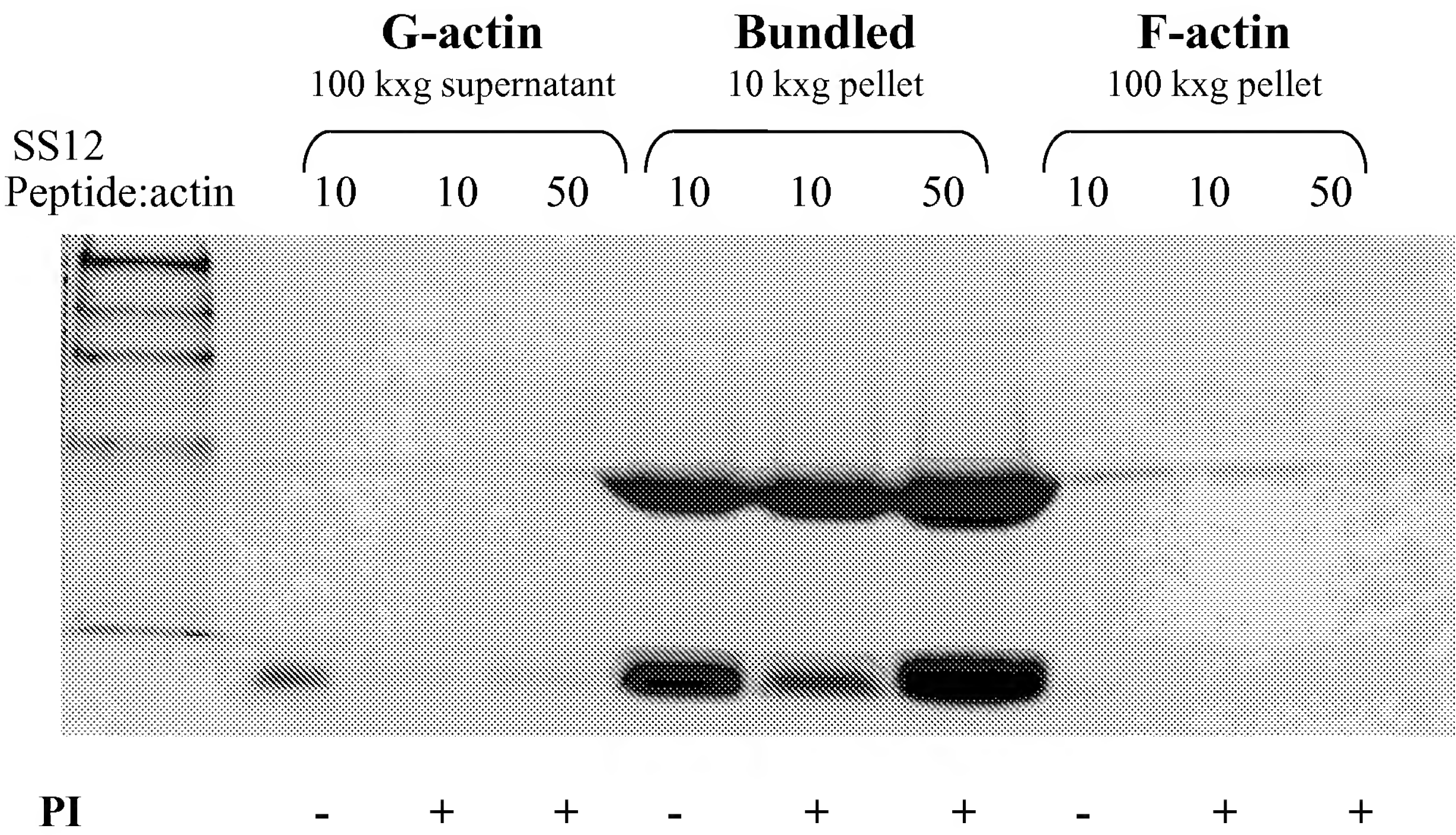


Fig. 7

SS2 bundling activity is not affected
by phalloidin

